



Overview of the modules in the bachelor program Civil Engineering Specialization "Construction and Structural Design"

pecialization "Construction and Structural Design		Credit Points (CrP)								
Modules	Pt.	BE 1	BE 2	BE 3	BE 4	BE 5	BE 6	BE 7		
Computer Science in AEC (CAD/BIM)		5								
Building Construction and Degree Program Project Week										
 Building Construction 1 (4 ECTS) Partial Module: Degree Program Project Week (SEPW) (1 ECTS) 		5								
Materials Sciences		5								
Geometry and Mathematics										
Descriptive Geometry (2 ECTS)Mathematics 1 (3 ECTS)		5								
Principles of Infrastructural Engineering		5								
Structural Concepts 1		5								
SUM		30								
Building Construction 2			5							
Building Physics 1			5							
Mathematics 2			5							
Pavement Design and Materials 1			5							
Structural Concepts 2			5							
Water Resources Engineering 1			5							
SUM			30							
Rail Systems and Railroad Engineering				5						
Soil Mechanics 1				5						
Building Law and Civil Engineering Management										
Civil Engineering Management (3 ECTS)Building Law (2 ECTS)				5						
Project Management 1				5						
Reinforced Concrete Design 1				5						
Structural Concepts 3				5						
SUM				30						
Construction Management and Calculation					5					
Building Physics 2					5					
Foundation Engineering 1					5					
Urban Water Management 1					5					
Reinforced Concrete Design 2					5					
Surveying					5					
SUM					30					
Structural Analysis 1						5				
Foundation Engineering 2						5				
Timber Construction - basics						5				
Solid Construction 1 with Project						5				





Modules		Credit Points (CrP)								
		BE 1	BE 2	BE 3	BE 4	BE 5	BE 6	BE 7		
Steel Construction 1						5				
Elective Module 1						5				
SUM						30				
Structural Analysis 2							5			
Integrated Project / Structural Design							5			
Solid Construction 2 with Project							5			
Steel Construction 2							5			
Elective Module 2							5			
Elective Module 3							5			
SUM							30			
Practical Vocational Phase								15		
Bachelor Thesis								12		
Bachelor Thesis: Presentation and Colloquium								3		
SUM								30		

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	Basics and Theory							
Design and Planning								
Construction and Engineering								
		Infrastructure Planning						
Project Management								
		Elective Modules						





	ive Modules of the specialization struction and Structural Design"	Pt.	CrP
	Knowledge Relating to Occupational Safety and Health		5
ment	Tendering, Awarding of Contracts + Accounting		5
anageı	Building Construction Processes 1		5
Area Project Management	Construction Management Project		5
ea Pro	Integrative Project		5
Are	EDV – Application in Construction Management and Project Management		5
	Applied Water Management		5
	Computer Application of Traffic Engineering		5
ning	Geographical Information Systems		5
Area Infrastructure Planning	Infrastructure Planning Project		5
tructur	Sanitary Engineering 2		5
Infras	Highway Design and Materials 2		5
Area	Transport Planning and Public Transport Systems		5
	Transport Engineering		5
	Water Resources Management 2: Engineering Hydrology and Water Supply		5
uction	Introduction to Bridge Engineering		5
Area Construction	Timber Construction Project		5
Area (Tunnel Construction and Pipe Jacking		5
	Computer Science in AEC Project		5
	Building Construction 5 (TGA)		5
nles	Energy Efficient Building		5
e Mod	European Architecture and Civil Engineering		5
hensiv	Resource-saving design		5
Comprehensive Modules	Urban Planning 1 / Strategic Environmental Assessment (SEA) and Environmental Impact Assessment (EIA)		5
	Elective Module (Department Marketing and Communication)		5
	Elective Module (THM)		5





Bachelor Civil Engineering specialization "Construction and Structural Design"

1 st Semester	2 nd Semester	3 rd Semester	4 th Semester	5 th Semester	6 th Semester	7 th Semester
Computer Science in AEC (CAD/BIM) 5 ECTS	Building Physics 1	Reinforced Concrete Design 1 5 ECTS	Building Physics 2	Elective Module 1	Elective Module2	
Building Construction 1 4 ECTS SEPW 1 ECTS Building Construction 2 5 ECTS		Soil Mechanics 1	Surveying 5 ECTS	Timber Construction - basics 5 ECTS	Elective Module3	Practical Vocational Phase 15 ECTS
Structural Concepts 1 5 ECTS	Structural Concepts 2 5 ECTS	Structural Concepts 3 5 ECTS	Foundation Engineering 1	Structural Analysis 1	Structural Analysis 2	
Mathematics 1 3 ECTS Descriptive Geometry 2 ECTS	Mathematics 2	Civil Engineering Management 3 ECTS Building Law 2 ECTS	Reinforced Concrete Design 2 5 ECTS	Foundation Engineering 2 5 ECTS	Integrated Project / Structural Design 5 ECTS	
Materials Sciences 5 ECTS	Pavement Design and Materials 1	Project Management 1 5 ECTS	Construction Management and Calculation 5 ECTS	Solid Construction 1 with Project 5 ECTS	Solid Construction 2 with Project 5 ECTS	Bachelor Thesis with Presentation and Colloquium
Principles of Infrastructural Engineering	Water Resources Engineering 1 5 ECTS	Rail Systems and Railroad Engineering 5 ECTS	Urban Water Management 1 5 ECTS	Steel Construction 1 5 ECTS	Steel Construction 2 5 ECTS	

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	Basics and Theory		Construction and Engineering		Infrastructure Planning		Project Management		Elective Modules